

5 diameter ranging from 0.01 through 2 μm obtained from a radical polymeric monomer composition
6 consisting essentially of:
7 (a) 20 through 99 wt% of styrene;
8 (b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and
9 (c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric
10 monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-
11 trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;
12 a colorant; and
a solvent that is liquid at room temperature.

1021 14. (Four Times Amended) Ink comprising:

2 a copolymer particle that has a glass transition point less than or equal to 45 $^{\circ}\text{C}$, a softening point
3 measured by a flow tester ranging from 40 through 150 $^{\circ}\text{C}$ and a volume average particle diameter ranging
4 from 0.01 through 2 μm obtained from a radical polymeric monomer composition consisting essentially of:
5 (a) 20 through 99 wt% of styrene;
6 (b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and
7 (c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric
8 monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-
9 trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;
10 a colorant; and

a solvent that is liquid at room temperature.

16. (Four Times Amended) An ink cartridge including a case and ink which is stored in said case
and comprises:

a copolymer particle that has a glass transition point less than or equal to 45 °C, a softening point
measured by a flow tester ranging from 40 through 150 °C and a volume average particle diameter ranging
from 0.01 through 2 μm obtained from a radical polymeric monomer composition consisting essentially of:

(a) 20 through 99 wt% of styrene; and

(b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and

(c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric
monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-
trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;

a colorant; and

a solvent that is liquid at room temperature.

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Cont'd*
17. (Four Times Amended) A recording device including a head and an ink cartridge supplying ink to said head, wherein said ink comprises:

3 a copolymer particle that has a glass transition point less than or equal to 45 °C, a softening point
4 measured by a flow tester ranging from 40 through 150 °C and a volume average particle diameter ranging
5 from 0.01 through 2 μ m obtained from a radical polymeric monomer composition consisting essentially of:
6 (a) 20 through 99 wt% of styrene; and
7 (b) 10 through 80 wt% of alkyl acrylate or alkyl methacrylate; and
8 (c) 5 through 10 wt% of polymeric monomer including a polar group, the polymeric
9 monomer including a polar group consisting of acrylic acid, methacrylic acid, 2-hydroxypropyl-N, N, N-
10 trimethylammonium chloride acrylate, vinylpyridine and N, N-diallylmethylammonium chloride;
11 a colorant; and
12 a solvent that is liquid at room temperature.